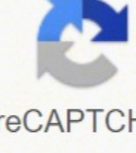
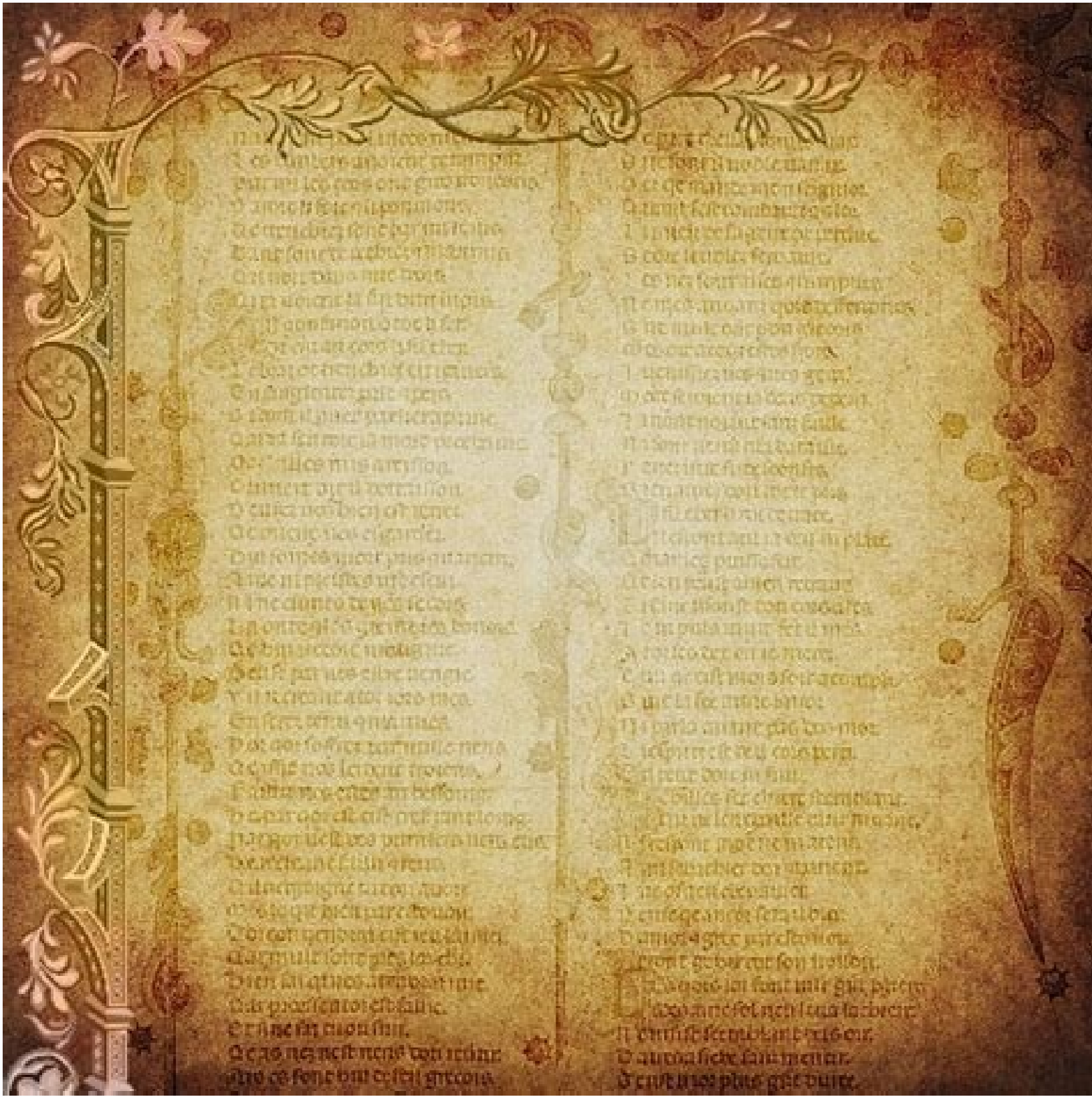


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**Mathematics**

- When  $2^{2011}$  is divided by 5, the least positive remainder is :  
 (a) 4 (b) 8  
 (c) 2 (d) 6
- If  $\omega$  is a complex cube root of unity, then  

$$\begin{vmatrix} 1 & \omega & \omega^2 \\ \omega & \omega^2 & 1 \\ \omega^2 & 1 & \omega \end{vmatrix}$$
 is equal to :  
 (a) -1 (b) 1  
 (c) 0 (d)  $\omega$
- The ends of the latus rectum of the conic  $x^2 + 10x - 16y + 25 = 0$  are :  
 (a) (3, -4), (13, 4)  
 (b) (-3, -4), (13, -4)  
 (c) (3, 4), (-13, 4)  
 (d) (5, -8), (-5, 8)
- The equation to the hyperbola having its eccentricity 2 and the distance between its foci is 8, is :  
 (a)  $\frac{x^2}{12} - \frac{y^2}{4} = 1$  (b)  $\frac{x^2}{4} - \frac{y^2}{12} = 1$   
 (c)  $\frac{x^2}{8} - \frac{y^2}{2} = 1$  (d)  $\frac{x^2}{16} - \frac{y^2}{9} = 1$
- The solution of  $\sin^{-1} x - \sin^{-1} 2x = \pm \frac{\pi}{3}$  is :  
 (a)  $\pm \frac{1}{3}$  (b)  $\pm \frac{1}{4}$   
 (c)  $\pm \frac{\sqrt{3}}{2}$  (d)  $\pm \frac{1}{2}$
- In a  $\Delta ABC$  if the sides are  $a = 3$ ,  $b = 5$  and  $c = 4$ , then  $\sin \frac{B}{2} + \cos \frac{B}{2}$  is equal to :  
 (a)  $\sqrt{2}$  (b)  $\frac{\sqrt{3}+1}{2}$   
 (c)  $\frac{\sqrt{3}-1}{2}$  (d) 1
- The two circles  $x^2 + y^2 - 2x + 22y + 5 = 0$  and  $x^2 + y^2 - 14x + 6y + k = 0$  intersect orthogonally provided  $k$  is equal to :  
 (a) 47 (b) -47  
 (c) 49 (d) -49
- The radius of the circle  $x^2 + y^2 - 4x + 6y - 13 = 0$  is :  
 (a)  $\sqrt{26}$  (b)  $\sqrt{13}$   
 (c)  $\sqrt{23}$  (d) 0
- The centre of the circle  $x = 2 + 3 \cos \theta$ ,  $y = 3 \sin \theta - 1$  is :  
 (a) (3, 3) (b) (2, -1)  
 (c) (-2, 1) (d) (-1, 2)
- The sum of the focal distances of any point on the conic  $\frac{x^2}{25} + \frac{y^2}{16} = 1$  is :  
 (a) 10 (b) 9  
 (c) 41 (d) 18
- The solutions of the equation  $\begin{vmatrix} x & 2 & -1 \\ 2 & 5 & x \\ -1 & 2 & 4 \end{vmatrix} = 0$  are :  
 (a) 3, -1 (b) -3, 1  
 (c) 3, 1 (d) -3, -1
- If  $A = \begin{bmatrix} 3 & 5 \\ 2 & 0 \end{bmatrix}$  and  $B = \begin{bmatrix} 1 & 1 \\ 0 & -1 \end{bmatrix}$  then  $|AB|$  is equal to :  
 (a) 80 (b) 100  
 (c) -110 (d) 92
- The inverse of the matrix  $\begin{bmatrix} 3 & -2 \\ 5 & 1 \end{bmatrix}$  is :  
 (a)  $\frac{1}{11} \begin{bmatrix} 1 & 2 \\ -3 & 3 \end{bmatrix}$  (b)  $\begin{bmatrix} 1 & 2 \\ -3 & 3 \end{bmatrix}$   
 (c)  $\frac{1}{13} \begin{bmatrix} -2 & 5 \\ 1 & 3 \end{bmatrix}$  (d)  $\begin{bmatrix} 1 & 2 \\ -3 & 3 \end{bmatrix}$



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